

1 CONTROLLED RELUCTANCE AC INDUCTION MOTOR

2 ABSTRACT OF THE DISCLOSURE

3 An electric motor operated by AC current, that includes
4 a stator and a rotor supported for rotation about an axis
5 relative to the stator. The stator is provided with field
6 windings angularly distributed about the rotor axis and
7 capable of producing a magnetic field vector in the space of
8 the rotor. Circuitry delivers AC current to the windings in
9 a manner that produces an AC magnetic field vector that
10 moves around the axis of the rotor. The rotor has a
11 construction, such as an axially extending conductive loop,
12 that changes its reluctance in the AC magnetic field
13 depending on its orientation to the AC magnetic field vector
14 whereby the rotor is caused to rotate in synchronization
15 with the movement of the AC magnetic field vector.